

# Software Upgrade Instructions for Powerheart<sup>®</sup>, FirstSave<sup>™</sup>, and CardioVive<sup>™</sup> Automated External Defibrillators (AEDs)

70-00698-01 B

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AT THE HEART OF SAVING  
LIVES<sup>®</sup>

## About the upgrade

This upgrade is required to be installed on the devices for which the serial numbers are listed on the notification letter dated earlier this year. The software adds these features to your AED:

- ◆ AHA/ERC 2005 guideline compliance
- ◆ Enhanced self-test capability

**Important:** You must perform this upgrade on AEDs even if they are already AHA/ERC 2005 compliant.

**Note:** Apply this upgrade only to the specific devices listed on the notification letter.

### Contents of the AED upgrade kit (mailed)

The upgrade kit includes these items:

- ◆ Software upgrade CD
- ◆ Quick start tool kit CD
- ◆ Software upgrade instructions (this document)
- ◆ AED Instructions for Use

### Contents of the AED upgrade package (downloaded from Cardiac Science web site)

The upgrade software includes these items:

- ◆ AED software upgrade
- ◆ Quick start toolkit
- ◆ MDLink User Manual
- ◆ Software upgrade instructions (this document)
- ◆ AED Operator and Service Manual

## Safety

To prevent damage to the equipment, note the following warnings and cautions:



**WARNING. AED out of service.**

The AED cannot perform a rescue during the upgrade. Ensure the AED can be removed from service until the upgrade is complete (normally about 30 minutes). During the upgrade, the AED Rescue Ready indicator is red, indicating an out-of-service condition. Return the AED to service when the upgrade is complete, verified, and the Rescue Ready indicator is green.



**WARNING. Electrical shock or fire damage.**

Do not connect any telephones or unauthorized connectors to this equipment.



**Caution. Read these instructions carefully.**

Become familiar with these instructions before starting the upgrade application.

## Required tools

The following tools are required to complete this procedure:

- ◆ Computer with Microsoft® Windows® XP®, Windows® Vista®, or Windows® 7, and, if installing from a CD, a CD-ROM drive

**Note:** Before starting the upgrade, if you are using a laptop computer, ensure that the battery on the laptop computer is fully charged and that the computer is plugged into an electrical outlet.

- ◆ If settings on the AED have been modified from the factory defaults: image editing software such as Microsoft Paint, Microsoft Office Picture Manager, or Microsoft Word can be used to compare settings.

- ◆ Cardiac Science communications cable

If the cable cannot be found, Cardiac Science will supply one for you free of charge.

- In the USA, call Cardiac Science Technical Support at 1-800-426-0337 (option 1).
- Outside the USA, please contact your local Cardiac Science representative.

If the computer does not have an available serial port, a USB to serial adapter can be used for the upgrade. The following USB adapter has been tested for use with the Powerheart AED: Cardiac Science part number 9171-001.

- ◆ Cardiac Science upgrade software: this software can be downloaded from the Cardiac Science web site or installed from the upgrade CD (mailed on request)

**Note:** After the upgrade, use only AHA/ERC 2005 compatible MDLink® and Rescuelink® to communicate with the AED. These software tools can be installed from the Quick Start Tool Kit CD included in the upgrade kit (mailed on request). If you downloaded the software package, the tools are available from the Windows Start menu.

## Upgrade preparation

**Important:** You must perform this upgrade on affected AEDs even if they are already AHA/ERC 2005 compliant.

**Note:** Upgrade only devices listed on the notification letter.

### Verify AED status and battery charge

The Rescue Ready® status indicator must be green before starting the upgrade process. Green indicates these conditions:

- ◆ Battery has an adequate charge (see note below)
- ◆ Pads are properly connected and are functional
- ◆ Integrity of the internal circuitry is good
- ◆ No errors occurred after the last AED self-test



**Caution. Procedure failure.**

If the status indicator is red, the AED requires attention to correct the error prior to starting the upgrade process. Please refer to [Troubleshooting](#) on page 35 and the [List of common errors](#) on page 37 for further information.

**Note:** Models 9300C and 92531 do not include a Rescue Ready indicator. You may upgrade these models if all of these conditions exist:

- Red “Wrench” status indicator is not illuminated
- Battery has an adequate charge (see note below)
- No AED error tone (beeps several times per minute) is audible
- No voice prompt “Service Required” is audible

**Note:** After the upgrade begins, the amount of charge in the battery is evaluated to determine if the battery has enough reserve energy to perform the upgrade.

If the battery does not have enough reserve energy for the entire upgrade process, the application alerts the user. A fresh or fully charged battery must be installed to continue the upgrade process.

**Note:** Even if the Rescue Ready indicator is green, and the AED can perform a rescue, the battery may not have enough reserve energy to perform the entire upgrade process.

## Upgrade information

The upgrade application requires that you provide the following information at the beginning of the upgrade process:

- ◆ Contact name, organization, street address, city, state/province, country, postal code, email address, and phone number

Along with the information you provide, the application saves additional data to a file—but does not send the file to Cardiac Science without your permission:

- ◆ Computer operating system version, upgrade version, upgrade time and date, length of time to upgrade, AED model number, serial number, code version, voice version, text version, status code, and battery capacity

After you finish the upgrade of the AED, please send the upgrade information file to Cardiac Science as directed (see [page 33](#)). If you need help locating or sending the upgrade information file, please contact Cardiac Science Technical Support directly (See [Contact information](#) on page 38). Outside the USA and Canada, contact your local Cardiac Science representative.

## AED AHA MDLink configuration upgrade note

The AHA software upgrade application evaluates the current MDLink configuration settings on the AED prior to the upgrade process. Most of the existing settings will remain unchanged; however, certain AHA guideline configuration upgrades will be installed regardless of the previous choices made in MDLink.

Configuration changes include:

- ◆ CPR time default: 120 seconds (9390 E/A: 135 seconds)

**Note:** The default value may be different on your model. If there is a question, contact your medical director.

- ◆ ECG monitoring during CPR: Disabled
- ◆ Check Breathing prompt: Disabled

**Note:** The Check Breathing prompt does not apply on 9300C and 92531 models.

## Comparison of MDLink configuration settings

**Important:** If no changes to the AED's settings have been made since its purchase, skip this section and go to [Perform the Upgrade](#) on page 10.

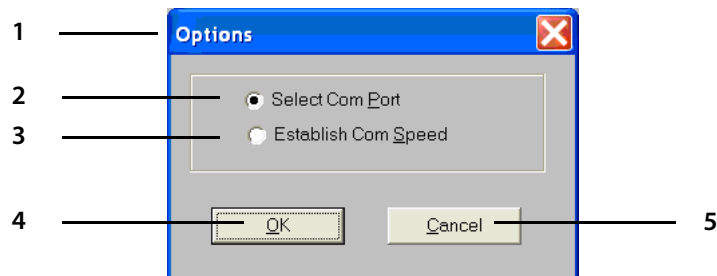
You do not need MDLink or Rescuelink installed to upgrade the AED.

Otherwise, if any AED settings have changed and the AED is not AHA/IEC 2005-compliant, perform this procedure to ensure that the customized settings can be restored after the upgrade.

For comparison, record the MDLink settings before and after the upgrade process. Use the following instructions to create screen captures for the AED settings.

**Note:** MDLink can be used to get the AED settings both before and after the upgrade.

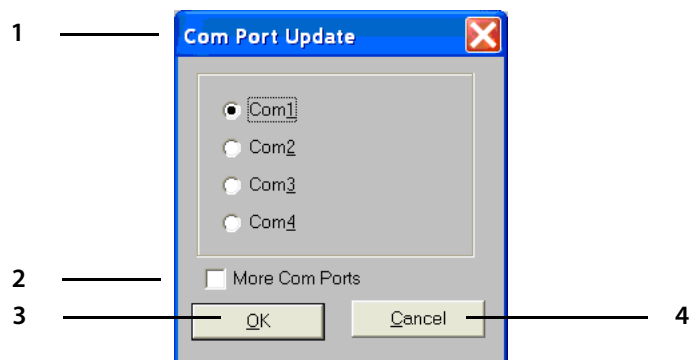
1. Connect the serial cable to the serial port of the PC. If you have a G3 Pro, connect the IR cable.  
**Note:** On some models, you must open the lid to have access to the serial port.
2. Open the lid of the AED. The voice and text prompts start and continue until communication with the computer is established ([step 11 on page 8](#)).
3. Double click the **MDLink** icon.
4. Enter the password:  
`rescue`
5. Click **OK**.
6. Click the **Options** button.



**Figure 1:** Options dialog box

1	Options
2	Select COM Port
3	Establish Com Speed
4	OK
5	Cancel

7. Select **Select Com Port**.
8. Click **OK**.
9. Select the serial port the AED is plugged into (usually **Com1**).



**Figure 2: Com Port Update dialog box**

1	Com Port Update
2	More Com Ports
3	OK
4	Cancel

10. Click **OK**.
11. Click **Get AED Configuration**. The AED prompts **Communications Mode** and the **Get AED Configuration** sequence begins.

When using a previous MDLink software version, you may see an error message similar to this:



**Figure 3: MDLink warning dialog box**

1	Warning 2001. The connected AED is not compatible with this version of MDLink. Automatically restart MDLink 9.9. Please retry operation.
2	OK



If you see the message:

- a. Click **OK**.
- b. Click **Get AED Configuration** again.

The message should not appear again.

12. Select **Internal Memory** in the **Get Option Parameters** window.
13. Click **OK**
14. Wait until the **Get AED Configuration** process is complete.
15. Click **OK** in the dialog box indicating that the Getting Parameters process was successful.
16. Copy the configuration screen to the clipboard:
  - a. Click the title bar of the configuration window.
  - b. Press **ALT + PrtSc** (or **Print Screen**).
17. Open any image editing software such as Microsoft Paint, Microsoft Office Picture Manager, or Microsoft Word.
18. Paste the image from the clipboard to the document:
  - a. Click inside the blank document.
  - b. Select **Edit | Paste** (or press **Ctrl + V**).
  - c. Save the document, naming it *Before the Upgrade*.
19. Perform the upgrade. See *Perform the Upgrade* on page 10.
20. Repeat [step 1](#) through [step 17](#) but save the screen shot in a new document named *After the Upgrade*.
21. Because the upgrade may change some AED settings, compare the two documents and note any differences in the settings. Use MDLink to update the settings that should be changed from the factory defaults. For details, see the MDLink manual provided with the software.

## Perform the Upgrade

Use the following procedure to upgrade the AED:



**Caution. Read and follow these cautions carefully.**

Ensure the following conditions are met to ensure a successful upgrade:

- This procedure assumes a working knowledge of AED controls and operation. If necessary, refer to the Operator and Service manual for additional information.
- Do not disconnect the serial cable at any time during the upgrade.
- If you use a CD, do not remove the upgrade CD until the upgrade is complete.
- Do not use the computer or AED until the upgrade is complete.
- The AED lid must be left open and in the locked position during the entire upgrade process. When the upgrade process and verification steps are complete, it is safe to close the lid.
- Do not leave the lid open beyond the time required to complete the upgrade process and verification. Leaving the lid open for an extended period will deplete the battery.
- Do not remove the battery during the upgrade procedure.
- Once the upgrade process has started, the computer records certain AED information. If for any reason the upgrade process must be restarted, the same computer must be used to complete the upgrade process.

**Note:** Graphics in the manual and in the upgrade software show a Powerheart AED that may look different than your model of AED.

1. Place the AED on a flat surface next to the computer.
2. Close all programs running on your computer.
3. Start the upgrade application.
  - If you downloaded the software from the Cardiac Science web site: from the **Start** menu, select **All Programs | Cardiac Science Corp | AED Upgrade**. The application starts.
  - If you are using a CD: insert the CD into the CD-ROM drive and wait for the upgrade application to start.

4. Follow the directions given by the upgrade application.

The upgrade may take several minutes to complete.

*Instructions for the upgrade installation application* on page 11 shows all screens that compose the upgrade application.

During the upgrade process, disregard all text prompts or messages that appear on the AED's display. In some instances, the display may be blank and all indicators unlit. In either case, the upgrade is working properly.

**Important:** The AED must enter Communications Mode for the upgrade to be successful. The installation program shows how your AED establishes communications mode. Refer to *Troubleshooting* on page 35 if Communications Mode is not established.

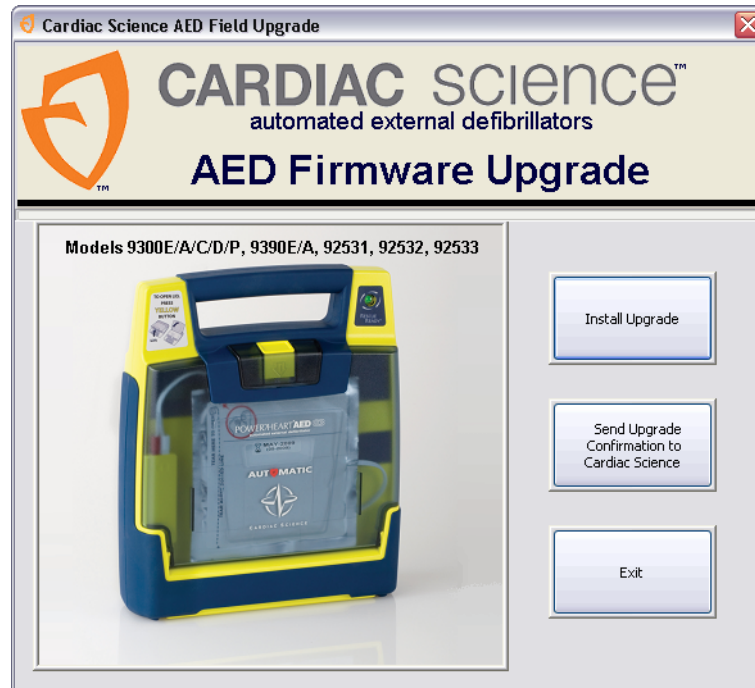
5. Transmit the generated upgrade log files to Cardiac Science. See [page 33](#).

## Instructions for the upgrade installation application

This section provides screenshots of the upgrade program. Use this section to follow the instructions presented by the upgrade software.

After the upgrade program runs, this screen appears:

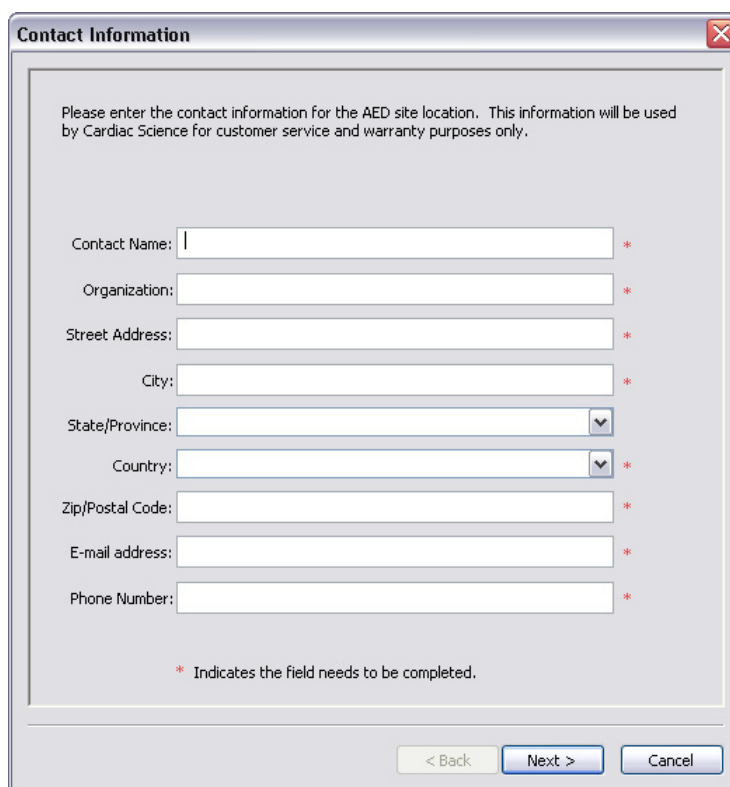
**Note:** Your exact model of AED may not be shown.



**Figure 4:** Cardiac Science AED Field Upgrade screen

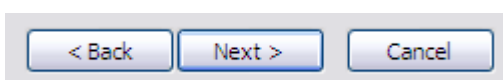
Click **Install Upgrade**.

This screen appears:



The 'Contact Information' dialog box has a title bar with a close button. Inside, a message states: 'Please enter the contact information for the AED site location. This information will be used by Cardiac Science for customer service and warranty purposes only.' Below this are several input fields, each followed by a red asterisk indicating it is required: 'Contact Name:', 'Organization:', 'Street Address:', 'City:', 'State/Province:' (a dropdown menu), 'Country:' (a dropdown menu), 'Zip/Postal Code:', 'E-mail address:', and 'Phone Number:'. At the bottom, a legend states '\* Indicates the field needs to be completed.' and three buttons are provided: '< Back', 'Next >', and 'Cancel'.

**Figure 5: Contact Information screen**



**Figure 6: Navigation buttons**

Click **Next >**.

Click **Yes** in this dialog box (Figure 7) if the contact information supplied is correct. Click **No** to change the information.



**Figure 7: AED Upgrade dialog box**

The upgrade installation program may take several minutes to process your information and configure the upgrade process.

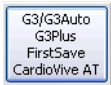

## Select your model of AED

Once the installation program finishes its configuration, this screen appears:



**Figure 8:** How to Connect Your AED - Select Your Model screen

Select your type of AED by clicking one of the buttons on the right of the screen. Follow the directions given on the screen.

If you have this model...	Click this button...	Go to...
92531 92532 9300A 9300C 9300D 9300E 9390A 9390E		<a href="#">Connect your G3 AED on page 14</a>
9300P 92533		<a href="#">Connect your G3 Pro AED on page 19</a>

## Connect your G3 AED

After you select the button for your model, you see a picture of the AED. Your AED may look different from the one in the photograph.



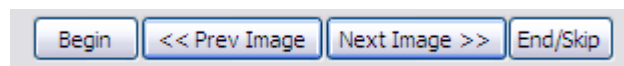
**Figure 9:** How to Connect Your AED - Select Your Model - G3 screen

Click **Next >** to go to the next screen.

The following screens provide directions to connect your AED to your computer. Follow the directions and then click **Next Image >>** to go to the next screen.



**Figure 10: Cardiac Science AED Upgrade Wizard screen**



**Figure 11: Navigation buttons**



**Figure 12: Cardiac Science AED Upgrade Wizard screen**



**Figure 13: Cardiac Science AED Upgrade Wizard screen**





**Figure 14: Cardiac Science AED Upgrade Wizard screen**



**Figure 15: Cardiac Science AED Upgrade Wizard screen**



**Figure 16:** Cardiac Science AED Upgrade Wizard screen

Go to [Continue the upgrade](#) on page 24.

## Connect your G3 Pro AED

After you select the button for your model, you see a picture of the AED. Your AED may look different from the one in the photograph.



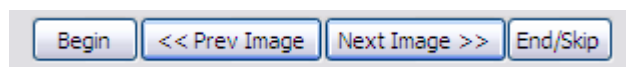
**Figure 17:** How to Connect Your AED - Select Your Model - G3 Pro screen

Click **Next >** to go to the next screen.

The following screens provide directions to connect your AED to your computer. Follow the directions and then click **Next Image >>** to go to the next screen.



**Figure 18: Cardiac Science AED Upgrade Wizard screen**



**Figure 19: Navigation buttons**



**Figure 20: Cardiac Science AED Upgrade Wizard screen**



**Figure 21: Cardiac Science AED Upgrade Wizard screen**



**Figure 22: Cardiac Science AED Upgrade Wizard screen**



**Figure 23: Cardiac Science AED Upgrade Wizard screen**



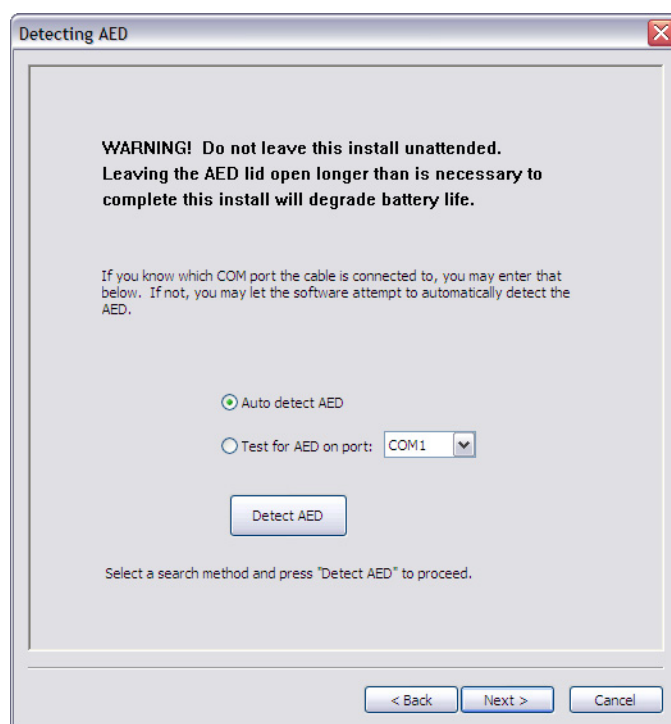
**Figure 24:** Cardiac Science AED Upgrade Wizard screen

Go to [Continue the upgrade](#) on page 24.

## Continue the upgrade

When the AED and computer are connected, click **Next >**.

If the upgrade application does not detect the AED, this screen appears:

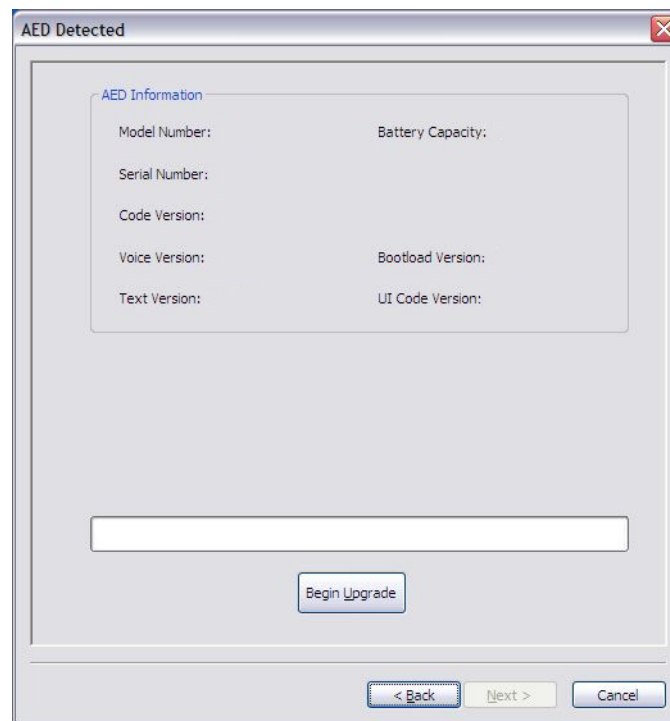


**Figure 25: Detecting AED screen**

Either specify the computer's COM port or select **Auto detect AED** and click **Detect AED**.



This screen appears:



**Figure 26:** AED Detected screen

Click **Begin Upgrade**.

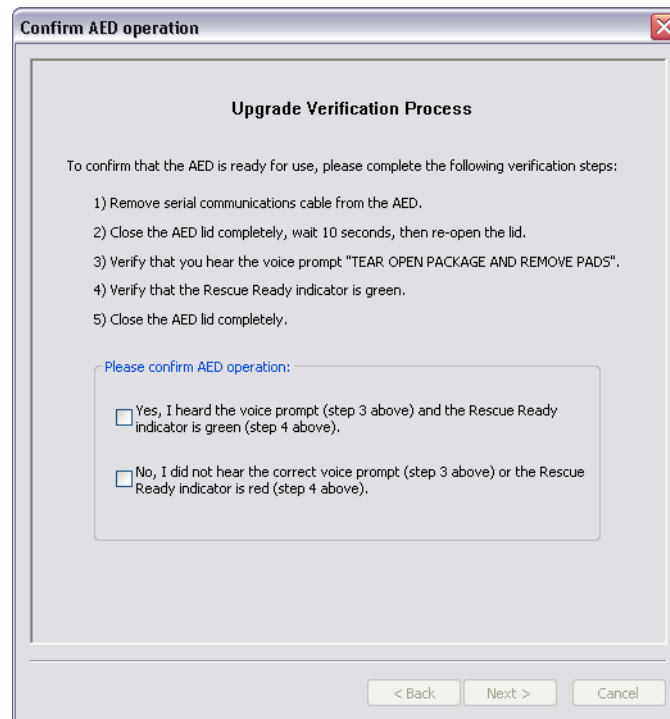
If you are upgrading some types of G3 Pro, this screen might appear:



**Figure 27: Confirm the Rescue Ready indicator is green screen**

If the AED is Rescue Ready, click the check box and click **Continue Upgrade**.

After the upgrade is complete, you see this screen:



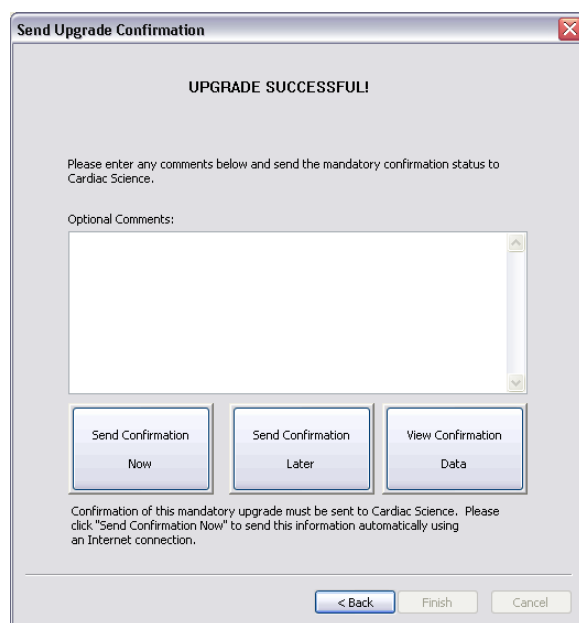
The image shows a software window titled "Confirm AED operation" with a standard Windows-style title bar (minimize, maximize, close buttons). The window has a light gray background. At the top, centered, is the heading "Upgrade Verification Process". Below this, a paragraph reads: "To confirm that the AED is ready for use, please complete the following verification steps:". This is followed by a numbered list of five steps: 1) Remove serial communications cable from the AED. 2) Close the AED lid completely, wait 10 seconds, then re-open the lid. 3) Verify that you hear the voice prompt "TEAR OPEN PACKAGE AND REMOVE PADS". 4) Verify that the Rescue Ready indicator is green. 5) Close the AED lid completely. Below the list, there is a section titled "Please confirm AED operation:" in blue text. This section contains two radio button options: the first is "Yes, I heard the voice prompt (step 3 above) and the Rescue Ready indicator is green (step 4 above)."; the second is "No, I did not hear the correct voice prompt (step 3 above) or the Rescue Ready indicator is red (step 4 above).". At the bottom of the window, there are three buttons: "< Back", "Next >", and "Cancel".

**Figure 28: Confirm AED operation screen**

Select your answer and click **Next >**.

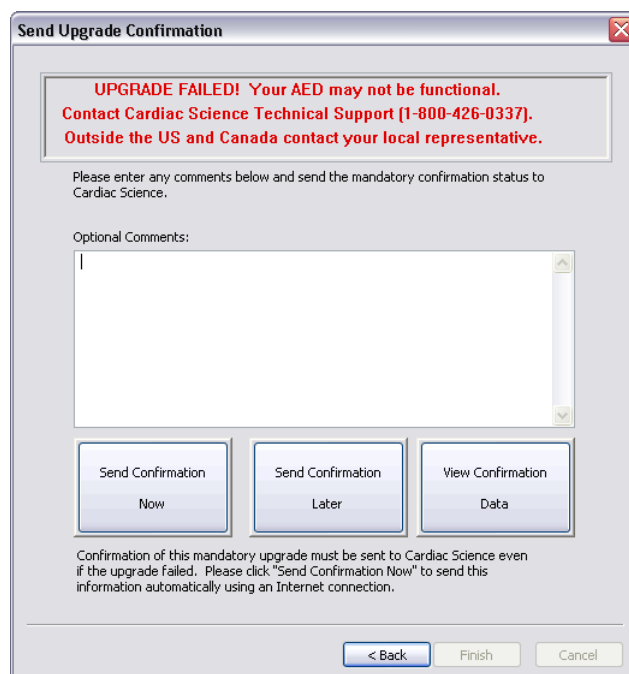
- ◆ If you selected Yes, you will see [Figure 29](#).
- ◆ If you selected No, you will see [Figure 30](#).

This screen appears:



**Figure 29: Send Upgrade confirmation—successful screen**

This screen appears:



**Figure 30: Send Upgrade confirmation—failed screen**

Click **Send Confirmation Now** or **Send Confirmation Later**. Please register even if the upgrade failed. Registering provides Cardiac Science Technical Support with important information about your AED that will help to solve the issue with the upgrade.

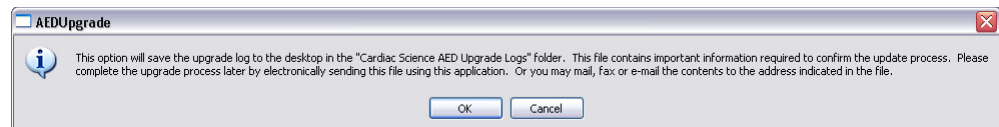
Click **OK** in the dialog box that appears.

- ◆ If you click **Send Confirmation Now**, this dialog box appears:



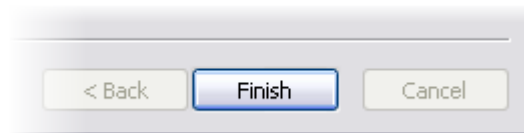
**Figure 31: AED Upgrade message**

- ◆ If you click **Send Confirmation Later**, this dialog box appears:



**Figure 32: AED Upgrade message**

Click **Finish** at the bottom of the screen:



**Figure 33: Send Upgrade Confirmation screen—Finish button**

Exit the upgrade program.

**Important:** Close the lid of the AED to preserve the battery's charge.

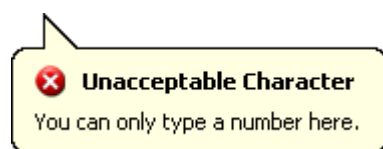
**Note:** After the upgrade, use only AHA/ERC 2005 compatible MDLink® and Rescuelink® to communicate with the AED. These software tools can be installed from the Quick Start Tool Kit CD included in the upgrade kit (if mailed to you). If you downloaded the upgrade software, from the Windows **Start** menu, select **Programs | Cardiac Science Corp | Quick Start Tool Kit**.

## Error messages and dialog boxes

You may see one or more of these messages:



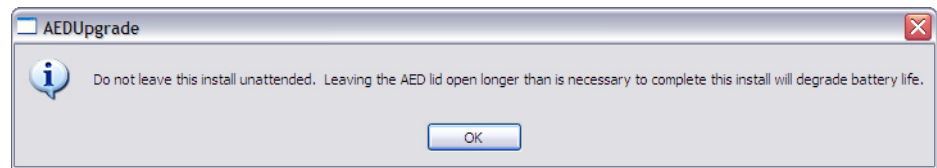
**Figure 34: Detecting AED error**



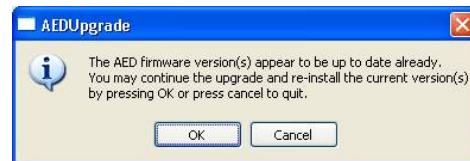
**Figure 35: AED Upgrade message**



**Figure 36: AED Upgrade message**



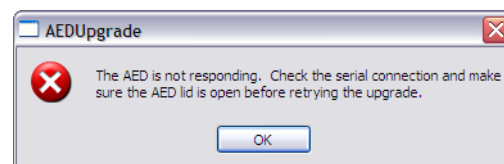
**Figure 37: AED Upgrade message**



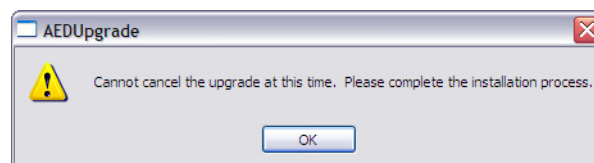
**Figure 38: AED Upgrade error**



**Figure 39: AED Upgrade error**



**Figure 40: AED Upgrade error**



**Figure 41: AED Upgrade error**

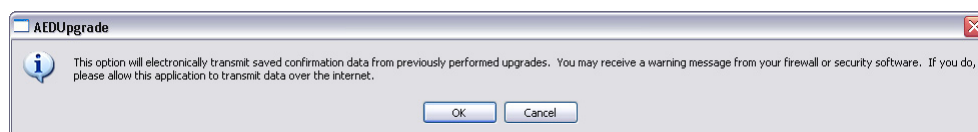


Figure 42: AED Upgrade message



Figure 43: AED Upgrade message



Figure 44: AED Upgrade message

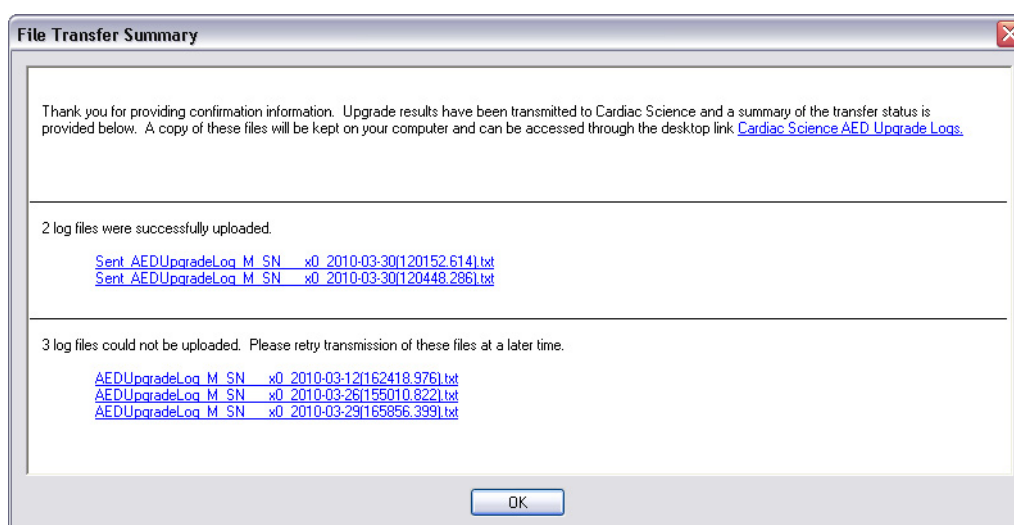


Figure 45: File transfer summary



## After the software upgrade

After the upgrade process is complete, you are prompted to transmit an AED upgrade log file to Cardiac Science Corporation to maintain device history.

This upgrade log file is generated automatically and is accessible with a shortcut named `Cardiac Science AED Upgrade Logs` on your computer's desktop. The folder can include several log files if the upgrade is performed more than once.

You can either transmit this file electronically with the upgrade application or use an alternative method (see below). The information contained in this file is described under [Upgrade information](#) on page 6.

Each upgrade file is named `AEDUpgradeLog_model number_serial number_startingversion_ending version_status code_ date(time).txt`.

**Note:** This file is renamed after it is successfully transmitted to Cardiac Science Corporation over the Internet.

If you do not use the upgrade application to transmit the file(s), send the file(s) to Cardiac Science in one of these ways:

- ◆ Email the data as an attached text file to `techsupport@cardiacscience.com`
- ◆ Print out the text file and fax it to: 1-425-402-2022
- ◆ Print out the text file and mail it to:

AED Upgrade  
Cardiac Science Technical Support  
Cardiac Science Corporation  
3303 Monte Villa Parkway  
Bothell, WA 98021-8969

**Note:** Outside the USA and Canada, contact your local Cardiac Science representative.

## Contents of an upgrade log file

CARDIAC SCIENCE AED UPGRADE LOG

Please email, fax or mail this file to:

email: TechSupport@cardiacscience.com  
Fax: 425-402-2022  
Mail: Cardiac Science Technical Support  
AED Upgrade  
3303 Monte Villa Parkway  
Bothell, WA 98021-8969

OS Version:  
Upgrade Time:  
Upgrade Version:  
Length of Upgrade:  
Battery Capacity:  
Serial Number:  
Model Number:  
Starting AED Versions: Code= Voice= Text=  
Ending AED Versions: Code= Voice= Text=  
Starting AED Status Code: Parameters:  
Ending AED Status Code: Parameters:  
Voice Prompt Confirmed After Upgrade:  
Parameters set correctly:  
Contact Name:  
Organization:  
Address:  
City:  
State/Province:  
Country:  
Zip:  
Email:  
Phone:  
Comment:

## Troubleshooting

The following information can be used to troubleshoot the most likely errors in the upgrade process.

**Note:** If you need further assistance to resolve AED errors, contact Cardiac Science Technical Support (see [Contact information](#) on page 38).

### Communication failure

Communication between the computer and AED cannot be established or was lost during the upgrade.

- ◆ The computer must be running Windows XP, Windows Vista, or Windows 7.
- ◆ Ensure the communication cable between the computer and AED is properly connected and tightly seated.
- ◆ Ensure the AED lid is fully open.
- ◆ Ensure the AED battery indicator shows at least one green bar (see the Operator and Service Manual for battery information and checks).

If you have verified all of the above items, the available serial port might not be activated. Refer to Windows' online help for instructions to activate the serial port.

### Upgrade process interrupted

The AED lid was closed during the upgrade process. The upgrade process may not have completed successfully.

- ◆ Restart the upgrade process from the beginning. Use the same computer that was used for the earlier attempt.

### Rescue Ready indicator remains red

The Rescue Ready indicator did not return to green after completing the upgrade process.

- ◆ If an error code is displayed, refer to the [List of common errors](#) on page 37.
- ◆ Ensure the pads connector is properly installed and fully engaged.
- ◆ Ensure the battery has sufficient charge (see the Operator and Service manual for battery information).
- ◆ Restart the upgrade process from the beginning. If the Rescue Ready indicator still does not turn green, contact Technical Support (see [Contact information](#) on page 38).

## AED not working

The AED is not working after the software upgrade was either interrupted or completed. The AED may display a **Service Required** prompt.

- ◆ If communication can be re-established to the computer, close the AED lid for 10 seconds, then re-open it. Restart the upgrade process from the beginning.
- ◆ If an error code is displayed, refer to the [List of common errors](#) on page 37.

## List of common errors

The table below lists common error codes and suggested corrections.

Error	Description	Suggested correction
0x55	Electrode not present	Plug in pads and restart upgrade.
0x32	Battery Low	Replace battery and restart upgrade.
0x33	Replace Battery	Replace battery and restart upgrade.

## Contact information

### Cardiac Science Technical Support

- ◆ 1 (800) 426 0337 (USA); When connected, press 1 for Technical Support, then press 2 for Powerheart
- ◆ 1 (425) 402 2000 (USA and Canada); When connected, press 1 for Technical Support, then press 2 for Powerheart
- ◆ techsupport@cardiacscience.com
- ◆ <http://websupport.cardiacscience.com/webchat/>

Outside the USA and Canada, contact your local Cardiac Science representative.

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